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	Application No.	Applicant(s)	-4
Notice of Allowability	10/764,101	HARRINGTON ET AL.	•
	Examiner	Art Unit	
	Jennifer Doan	2874	
The MAILING DATE of this communication apportant apportant and the second allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap) or other appropriate communication (IGHTS). This application is subject to 3 and MPEP 1308.	oplication. If not included n will be mailed in due co	urse. THIS
	<u>0/2/07</u> .		
2. The allowed claim(s) is/are <u>1-12,14-23,25-28,31 and 32</u> .			
3.	e been received. e been received in Application No cuments have been received in this of this communication to file a reply MENT of this application. nitted. Note the attached EXAMINER es reason(s) why the oath or declara st be submitted. son's Patent Drawing Review (PTO . 's Amendment / Comment or in the (1.84(c)) should be written on the drawithe header according to 37 CFR 1.121(posit of BIOLOGICAL MATERIAL	national stage application complying with the requi R'S AMENDMENT or NOT ation is deficient. -948) attached Office action of ings in the front (not the ba (d). must be submitted. Not	rements FICE OF
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. ☐ Notice of Informal F 6. ☐ Interview Summary Paper No./Mail Da 7. ☒ Examiner's Amend 8. ☒ Examiner's Statem 9. ☐ Other	r (PTO-413), ate ment/Comment) DAN

DETAILED ACTION

Response to Amendment

1. Applicant's amendment filed on August 2, 2007 has been fully considered and entered.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

In line 6 of claims 9 and 23, please delete "ratio of approximately 2.1" and insert - ratio of approximately 2:1-- (correcting the typo error).

Reasons for Allowance

- 3. Claims 1-12, 14-23, 25-28, 31 and 32 are allowed.
- 4. The following is an examiner's statement of reasons for allowance:

The prior art of record fails to disclose or reasonably suggest all the limitations recited in claims 1 and 16. Specifically, the prior art of record fails to disclose a flexible, hollow waveguide for transmitting radiation in visible and IR regions, comprising a composite of dielectric, paired sulfide-containing materials forming a photonic, bandgap

Art Unit: 2874

tube transmitting in the visible and IR regions in combination with the other limitations of claims 1 and 16.

Claims 2-8 depend from claim 1.

Claims 17-22 depend from claim 16.

The prior art of record also fails to disclose or reasonably suggest all the limitations recited in claim 9. Specifically, the prior art of record fails to disclose a flexible, hollow waveguide comprising a composite of dielectric materials disposed upon the metallic layer featuring disparate refractive indices with a ratio of approximately 2:1, wherein the composite of dielectric materials form sulfide-containing layers in combination with the other limitations of claim 9.

Claims 10-12, 14 and 15 depend from claim 9.

The prior art of record also fails to disclose or reasonably suggest all the limitations recited in claim 23. Specifically, the prior art of record fails to disclose a flexible, hollow waveguide comprising a composite of dielectric materials disposed upon the smooth inner bore surface of said transparent annular body, featuring disparate refractive indices with a ratio of approximately 2:1, wherein the composite of dielectric materials respectively comprise two sulfide layers in combination with the other limitations of claim 23.

Claims 25-27 depend from claim 23.

The prior art of record also fails to disclose or reasonably suggest all the limitations recited in claim 28. Specifically, the prior art of record fails to disclose a method of fabricating a flexible, hollow waveguide using liquid phase deposition, comprising the steps of depositing two sulfide-containing layers, cadmium sulfide and lead sulfide, respectively, upon said metallic layer of step (a) in combination with the other limitations of claim 28.

The prior art of record also fails to disclose or reasonably suggest all the limitations recited in claim 31. Specifically, the prior art of record fails to disclose a method of fabricating a flexible, hollow waveguide using liquid phase deposition, comprising the steps of depositing at first layer of cadmium sulfide upon an inner, smooth bore surface of a hollow silica-glass tube; and depositing at least a second layer of lead sulfide over the first layer of cadmium sulfide in combination with the other limitations of claim 31.

Claim 32 depends from claim 31.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 10/764,101

Art Unit: 2874

Conclusion

- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer Doan whose telephone number is (571) 272-2346. The examiner can normally be reached on Monday to Thursday from 6:00am to 3:30pm, second Friday off.
- 6. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rodney Bovernick can be reached on (571) 272-2344. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
- 7. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Page 5